You did not answer the question.

Formula sheet

$$x+y+z=1 \quad , \quad p=x+y/2 \quad , \quad q=1-p \quad , \quad x'=p^2 \quad , \quad y'=2pq \quad , \quad z'=q^2$$

$$\overline{w}=p^2w_{11}+2pqw_{12}+q^2w_{22} \quad , \quad p'=\frac{p}{\overline{w}}(pw_{11}+qw_{12})$$

$$\Delta p=p'-p=\frac{pq}{\overline{w}}[p(w_{11}-w_{12})-q(w_{22}-w_{12})]=\frac{pq}{2\overline{w}}\cdot\frac{d\overline{w}}{dp} \quad , \quad \hat{p}=\frac{w_{22}-1}{w_{11}+w_{22}-2}$$

$$A_1 \xrightarrow{u} A_2 \quad , \quad w_{11}=w_{12}=1 \quad , \quad 0\le w_{22}<1 \quad : \quad \hat{q}\approx\sqrt{\frac{u}{1-w_{22}}}$$

$$A_1 \xrightarrow{u} A_2 \quad , \quad w_{11}=1 \quad , \quad 0\le w_{12}=w_{22}<1 \quad : \quad \hat{q}\approx\frac{u}{1-w_{22}}$$

$$H'=H\left(1-\frac{1}{2N_e}\right) \quad , \quad N_e=\frac{4N_mN_f}{N_m+N_f} \quad , \quad N_e=\frac{t}{\frac{1}{N_1}+\frac{1}{N_2}+\cdots+\frac{1}{N_t}} \quad , \quad \hat{H}=\frac{4N_e\mu}{1+4N_e\mu}$$

$$w_{11}=1+s \quad , \quad w_{12}=1+s/2 \quad , \quad w_{22}=1 \quad , \quad \pi(p)=\frac{1-e^{-2N_esp}}{1-e^{-2N_es}}$$

$$p=\frac{1}{2N} \quad , \quad N_e\approx N \quad , \quad s>0 \quad : \quad \pi\approx s \quad , \quad \bar{t}\approx\frac{4\ln(2N)}{s} \quad , \quad K\approx 2Nu_bs$$

$$p=\frac{1}{2N} \quad , \quad N_e\approx N \quad , \quad s=0 \quad : \quad \pi\approx\frac{1}{2N} \quad , \quad \bar{t}\approx 4N \quad , \quad K\approx u_n$$

$$p_A=g_{AB}+g_{Ab} \quad , \quad q_a=g_{aB}+g_{ab} \quad , \quad p_B=g_{AB}+g_{aB} \quad , \quad q_b=g_{Ab}+g_{ab}$$
$$g'_{AB}=g_{AB}-rD \quad , \quad g'_{Ab}=g_{Ab}+rD \quad , \quad g'_{aB}=g_{aB}+rD \quad , \quad g'_{ab}=g_{ab}-rD$$
$$D=g_{AB}\cdot g_{ab}-g_{Ab}\cdot g_{aB} \quad , \quad D'=(1-r)D$$

$$\text{Mean} : \quad \bar{x}=\frac{1}{N}\sum x_i \quad , \quad \text{Variance} : \quad \mathrm{V}(x)=\frac{1}{N}\sum(x_i-\bar{x})^2$$

$$\text{Covariance} : \quad \mathrm{COV}(x,y)=\frac{1}{N}\sum(x_i-\bar{x})(y_i-\bar{y})$$

$$\mathrm{V_P}=\mathrm{V_G}+\mathrm{V_E}+\mathrm{COV_{GE}} \quad , \quad w=\alpha+\beta z+(\gamma/2)z^2 \quad , \quad R=h^2s \quad , \quad h^2=\frac{\mathrm{V_A}}{\mathrm{V_P}}$$

$$b=\frac{\mathrm{COV}(x,y)}{\mathrm{V}(x)}=\frac{\frac{1}{2}\mathrm{V_A}}{\mathrm{V_P}}=\frac{1}{2}h^2 \quad , \quad \frac{\mathrm{COV_{OM}}}{\mathrm{V_M}}=\frac{\frac{1}{2}\mathrm{V_A}}{\frac{1}{2}\mathrm{V_P}}=h^2 \quad , \quad \mathrm{V_{Midparent}}=\frac{1}{2}\mathrm{V_P}$$

Did you have any problems during the test? Let us know about them here. (Obviously, this is not for credit.)